What is claimed is:

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1. A stimulating light cut filter which is disposed between a radiation image convertor panel, which emits stimulated emission upon exposure to stimulating light beam, and a detecting means, which detects the stimulated emission emitted from the radiation image convertor panel, to transmit the stimulated emission and cut the stimulating light and comprises

an optical element which absorbs the stimulating light, 10 and

a reflecting layer which reflects the stimulating light.

- 2. A stimulating light cut filter as defined in Claim 1 in which at least one reflecting layer is disposed in an optical path of the stimulated emission along which the stimulated emission propagates behind a face of the optical element upon which the stimulated emission impinges first in the optical elements of the stimulating light cut filter.
- 3. A stimulating light cut filter as defined in Claim 1 in which the transmissivity of the optical path of the stimulated emission between the position in which the stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%.
- 4. A stimulating light cut filter as defined in Claim 1 in which the stimulating light cut filter is provided with

a plurality of the reflecting layers, and the transmissivity between the position in which the stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%, and the transmissivities between adjacent reflecting layers are all 10% or less.

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- 5. A stimulating light cut filter which is disposed between a radiation image convertor panel, which emits stimulated emission upon exposure to stimulating light beam, and a detecting means, which detects the stimulated emission emitted from the radiation image convertor panel, to transmit the stimulated emission and cut the stimulating light and comprises
- a plurality of optical elements which absorb the stimulating light, and
  - at least one reflecting layer which reflects the stimulating light.
- 6. A stimulating light cut filter as defined in Claim
  20 5 in which the plurality of optical elements are bonded together
  by way of the reflecting layer.
  - 7. A stimulating light cut filter as defined in Claim 5 in which at least one reflecting layer is disposed in an optical path of the stimulated emission along which the stimulated emission propagates behind a face of the optical element upon which the stimulated emission impinges first in

the optical elements of the stimulating light cut filter.

8. A stimulating light cut filter as defined in Claim 5 in which the transmissivity of the optical path of the stimulated emission between the position in which the stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%.

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- 9. A stimulating light cut filter as defined in Claim
  10 5 in which the stimulating light cut filter is provided with
  a plurality of the reflecting layers, and the transmissivity
  between the position in which the stimulated emission first
  impinges upon the stimulating light cut filter and the position
  in which the stimulated emission first impinges upon the
  15 reflecting layer is not higher than 10%, and the
  transmissivities between adjacent reflecting layers are all
  10% or less.
  - 10. A radiation image read-out apparatus which is provided with a detecting means detecting stimulated emission emitted from a radiation image convertor panel upon exposure to a line-like stimulating light beam, and reads out a radiation image recorded on the radiation image convertor panel through an imaging optical system, wherein
- a stimulating light cut filter comprising an optical element which absorbs the stimulating light and a reflecting layer which reflects the stimulating light is disposed between

the radiation image convertor panel and the detecting means to transmit the stimulated emission and cut the stimulating light.

- 11. A radiation image read-out apparatus as defined in
  5 Claim 10 in which at least one reflecting layer of the
  stimulating light cut filter is disposed in an optical path
  of the stimulated emission along which the stimulated emission
  propagates behind a face of the optical element upon which the
  stimulated emission impinges first in the optical elements of
  the stimulating light cut filter.
  - 12. A radiation image read-out apparatus as defined in Claim 10 in which the transmissivity of the optical path of the stimulated emission between the position in which the stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%.

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13. A radiation image read-out apparatus as defined in Claim 10 in which the stimulating light cut filter is provided with a plurality of the reflecting layers, and the transmissivity between the position in which the stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%, and the transmissivities between adjacent reflecting layers of the stimulating light cut filter are all 10% or less.

14. A radiation image read-out apparatus which is provided with a detecting means detecting stimulated emission emitted from a radiation image convertor panel upon exposure to a line-like stimulating light beam and reads out a radiation image recorded on the radiation image convertor panel through an imaging optical system, wherein

a stimulating light cut filter comprising a plurality of optical elements which absorb the stimulating light and at least one reflecting layer which reflects the stimulating light is disposed between the radiation image convertor panel and the detecting means to transmit the stimulated emission and cut the stimulating light.

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- 15. A radiation image read-out apparatus as defined in Claim 14 in which the plurality of optical elements of the stimulating light cut filter are bonded together by way of the reflecting layer.
- 16. A radiation image read-out apparatus as defined in Claim 14 in which at least one reflecting layer of the stimulating light cut filter is disposed in an optical path of the stimulated emission along which the stimulated emission propagates behind a face of the optical element upon which the stimulated emission impinges first in the optical elements of the stimulating light cut filter.
- 17. A radiation image read-out apparatus as defined in
  25 Claim 14 in which the transmissivity of the optical path of
  the stimulated emission between the position in which the

stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%.

18. A radiation image read-out apparatus as defined in Claim 14 in which the stimulating light cut filter is provided with a plurality of the reflecting layers, and the transmissivity between the position in which the stimulated emission first impinges upon the stimulating light cut filter and the position in which the stimulated emission first impinges upon the reflecting layer is not higher than 10%, and the transmissivities between adjacent reflecting layers of the stimulating light cut filter are all 10% or less.